- 1 -

SEQUENCE LISTING

<110> Autogen Research Pty Ltd
        Deakin University

<120> A novel gene and uses therefor

<130> 12396690/EJH

<150> US 60/439767
<151> 2003-01-13

<160> 13

<170> PatentIn version 3.1

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aaccgccgag acctgaactt cgagcgaggt ggtgagatga ccctcaagtg ccctgtgatg   180

ctggtggtag gagaccaagc gcctcatgag gatgccgtgg tggagtgtaa ctcaaaactg   240

gaccccacac agacctcgtt cctcaagatg gctgattctg gaggtcagcc acagctgacc   300

-2-

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cagccaggca agctgactga ggctttcaag tacttnctgc aaggcatggg ctacatggcc    360

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gtgccagtgg cgagtgggtc cggatttatc gtgtctgagg atggactgat tgtgaccaat    180

gctcacgtgg tgaccaacaa aaacagggtc aaggttgagc tgaagaatgg agcaacctat    240

gaagctaaaa tcaaggatgt ggatgaaaag gcagacatcg cacttatcaa aattgaccac    300

cagggaaagc tgccagtctt gctgctgggc cgctcctcag agcttcgacc aggagagttt    360

gtggtcgcca tcggaagccc ctttttccctt caaaacacag tcaccactgg gatcgtcagt    420

accacccagc gaggcggcaa agagctgggg c                                   451
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attaggttca aattatacct gattcatcta tatttacttt taaaatgtgt ggtttcctca     180

ttttaaaagt aaaactaaac agtgcttttg gaatttctaa gctactaatt gttgatagat     240

acagcctgtg tctagtaaaa tagttttgtg ggtgtgggtt ctatctttcc atgaaaaagt     300

gggaggtgta agttagtttg gttagtgcct aatagttaaa tttatataaa ataagaatga     360

gcatttggta tctgtatgaa agggccctaa atcaaaatga ttatccataa tcaatcttta     420

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acctgggaag ctacgatgcg agcttgatgc cgctacccta gcaggctatg gacttcctga    180

gggtcctcgg actgttgaca cccattccga tccgcatcct tccaagctga taagcccggg    240
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accctagggc ggggtgccca gactcatgtg tgacgccttg cagtgaaacc ccattcccag    300

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ttatgcagca gccaacacac ctccccccaa ctctccgctg tcactggtgg gccccactgt    420

ccaggaagca ggtgtccgga actgacatct tggagcagag gggccatgag aggtgtgtgt    480

atcctgccag aaagcagctg gaccacgacg ctcccaagat gaacccactg tatacagagg    540

catcatggga gttgttatgt caggagcatt ctagacccac gtgtacttga gcgtggaaag    600

acagaagana ngcgcagaga ctggggcact tgatctgctc accatgatcg cctgcacggg    660

tctcatccag ttcctgcctt aggctacagt ggcggtgtcc acgggcttgc cattcaacgt    720

gctctcagac ccagatcggg ctcaccactg aggagaacct tttcactttg gtgggtatgc    780

agagggaagg gtctcgactc cagagacctg gagtccaaag tttgtttttt tttatttacc    840

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tcacagtttc acactgtggg aacaggcatc cttgttctta cagattagcg cgagggaaac    1020

cagaaatatt aaacacgcag ggttgtctct ccaaagggag aggcacatac cctgttttcc    1080

tcccgaaggc tgggagcgga ggtgtttgat atcctggcta cctctgtgca atctgtaggc    1140

catgtcctta agatgtagct gtcagtcggt agtggagccg gagccgtcag tcagtagatt    1200

ggggttgtgg catgcgcctt taactccatt taattccagc actctagtgg tttggtacag    1260

cagcagcagc agcggttgca gtggcccggg gaagtcctga agaccagctt tcatcccagc    1320

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agtccagncn agccagggct acaacagaga aancctctct attgaaaaat aaataaatta    1440

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tttttgtgca cncaagaaaa ttgtttaact ggtgtcagac tcctgaagtt tgaaccagca    1560

cttagccngg cgtggtggcg cacgcctgta atcccagccc tcgggaggca gaggcaggtg    1620

gatctctgag ttagaggcca gcctggtcta cagagtgagt ccaggacagc caggattaca    1680

cagagaaacc ccgtctcaaa aatgtaaaat aaattaaaat aaagtttgaa ccaacagtgt    1740

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tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg      180

taaaccattg tgactgttac tgctcaaagt atcgtactgt tcattagtaa ctacatcaga      240

attgcaccgc tgctgttgga aaagccaata aagaaacccc cagactgctg ctcagcaaat      300

gttaataaag tgtgcgcacc gtaggcctgt ccacccagtc accaagcagc gtccctttgt      360

ctgcgagtgg ctgtgggtgt gattnaccac ctcagaggtg cacagcacct gcttgngccc      420

ttaagtgtgn gtcagaagac aagcagcttc tcggtaacca acaacctgct tttcggagct      480

cagtgtttag gctgtttact gaatcanata tgtaactcag cacacataag cgaagagaga      540

ttttggctgc actggcaaga gtgaaccaaa tttacttcta tttttaaag gcagatcata      600

tttaagcata taagtaattt atggatataa attgttggat atttatttta gtctgaatat      660

ttgttttaa attattacat gtgttctcta tgtctttatc tctggaataa cgatgccatt      720

aaccacatgg ccatatgttt tgaaagttgg gtgnaacaga ggaaaagtca tccttcttgg      780
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ttcttgactc cctttcctca actacatgat aagtctatca ataaagcatt tgacctcagc    840

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gaaataagaa gtgagaagca gctgctgngc tgagcagggg atgtaaacca agtccagatg    960

caccaacgtg aagaggcttn tagcaaaaat atgtttgcct ctcacccctg cacatgttct   1020

agatgcttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt gttgttgttg   1080

ttgttgttgt taaaggagtt ctcacaagcg tacaagtgca gcactgaaag tggctgaggc   1140

ccacagtcct cagcacccaa gtctnttccg cagcacgcca agctggtgtt gtccgggtgn   1200

gtatgtctgt gctcagtgcc aagctggtgt ttggtcccgt tgtatattat gtgccccaag   1260

tgttttgggg canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg   1320

ttgatncagn taaaaataaa ttaattaatt aaagactt                           1358
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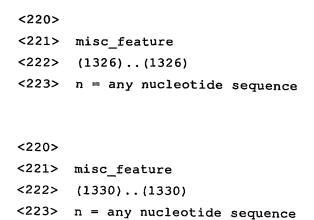
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- 12 -

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aagaccacct gcagctgcag cctggcggtc cagctgtcta agggacgtga gagtgttcta   180

atcatttcca cagacccagc tcacaacatc tcagatgcat ttgaccagaa gttctccaag   240

gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg   300

ggcgtggcag agctccctga tgaagttctt cgaggaagac aacatgctga gcatgggcaa   360

gaagatgatg caggaggcca tgagcgcctt   390

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<213> Psammomys obesus

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<223> n = any nucleotide sequence

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aaaattttac aaatgagtgt gaattgcatt ctgatataat aattatcacc ccaccacact        60

tttactgaca ctgttgatgg cctatgctgt gttttcacat cacaattctt gtatggaaaa       120

atttctgtgg cctgtgtaac ccctctggtc agtattatga aaccaactat ctttggtgat       180

aaataaggtt ccggtaagat gcccagggtt catgagtatg cacaaataa cagaggacag        240

gaggccttca cgacgaagga gcccgtaagt ggcctggagg gcacagatgc agttccaggt       300

caagaaaaga gcagcttttt caacaggcag tctgtgggta tgatgggaac tcagcctgtc       360

tctgtagtta tggacagcgt ggcaggtgac tgtgcccaca tcttcctata cagtgctttt       420

tttttactga ctggaagtac gtgaatctca cttagtcccc aactggacgt tttctggaaa       480

aacaaagcaa atgttaaagt atgtctttct ggatataggc cagnagnaaa tacattaaga       540

atgagaggcc ttgctttgat ctcagccatt ggaggctaga aaaaaattga aaggaacctt       600

cctgttgata gactcaaagc cgtgaacaga agcctcttgg cctgtttcag acaatctctg       660

gtaatctact gacaatatcc aacagtttcg atgtccttgt ttaactaccc tggtagcttt       720

cttgtggatt tgaagttcat ttttaaagct gtggaatttc aaactgaatt cacgtgcatt       780

ttgtaaaagt tcagaaccag tgctgagtct gtgtggcagg ttttttttcac cgcgtgatat       840

actattacaa atgcatgtgg tgccatgctt gtcttcaaat atataagtag tgctaaatgg       900

ataagtcata tggagctttt gatttag                                           927
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ccctggattc tttataagag atggtgacat gactagggaa attctttttt tagtatgaaa    180

attgtccctt caatactttt ctcttactgg cattgaatta tcacagagac agaaaattgg    240

taattttttt aatttctaac tctcccagaa aactcctctt gcctagtatt tatttgatgt    300

gctttaacca tgggaggagg ggtgggggg gaactcattc aagctgccag tattttgatc    360

tacaacctgt agca                                                      374


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<213>   Psammomys obesus

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<223>   n = any nucleotide sequence
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- 15 -

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<223> n = any nucleotide sequence


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ccctctacaa natgggcttc cccgaagcgg ncagctcctt cagaacacac canatttcgg    120

ctgctcccac cagctctgca agggatggat tcaaggccaa tcttgtcttt aaggagatcg    180

agaagaagct tgaagaggaa ggggaacagt tcgtgaagaa gatcggtggg atttttgcct    240

tcaaagtgaa ggacggccct ggaggcaaag aagccacctg ggtggtggat gtgaagaatg    300

gcaagggatc cgtgcttccc aactcagata agaaggctga ctgcacaatc accatggccg    360

actccgactt gctggctctg atgactgnca aaatgaaccc tc                      402


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